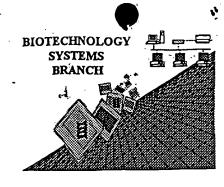
## RAW SEQUENCE LISTING ERROR REPORT



RECEIVED

APR 1 1 2002

TECH CENTER 1600/2900

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/995, 587Source: 0/965, 587Date Processed by STIC: 12/7/200/

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

#### Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

APR 1 1 2002

ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 57 600/2900
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOF
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4 : : Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading).  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
*	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
0Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
IUse of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
2Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
3Misuse of n!	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH - Biotechnology Systems Branch - 08/21/2001

### APR 1 1 2002

OIPE

# TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 12/06/2001

PATENT APPLICATION: US/09/995,587

TIME: 11:29:22

Input Set : A:\es.txt

Output Set: N:\CRF3\12062001\I995587.raw

```
3 <110> APPLICANT: TNO
  5 <120> TITLE OF INVENTION: Novel fructosyltransferases
  7 <130> FILE REFERENCE: Novel fructosyltransferases
9 <140> CURRENT APPLICATION NUMBER: US/09/995,587
> 10 <141> CURRENT FILING DATE: 2001-11-29
 12 <150> PRIOR APPLICATION NUMBER: 00201872.9
 13 <151> PRIOR FILING DATE: 2000-05-25
 15 <150> PRIOR APPLICATION NUMBER: 01200049.3
 16 <151> PRIOR FILING DATE: 2001-01-09
 18 <160> NUMBER OF SEQ ID NOS: 26
```

20 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply Corrected Diskette Needed

#### **ERRORED SEQUENCES**

```
401 <210> SEQ ID NO: 5
     402 <211> LENGTH: 5
     403 <212> TYPE: PRT
                             see item 9 on Evan Sunnay Sheet
     404 <213> ORGANISM: Lactobacillus reuteri
     406 <400> SEQUENCE: 5
E--> 407 Leu Pro Xaa Thr Gly
     408
          1
     753 <210> SEQ ID NO: 11
     754 <211> LENGTH: 792
     755 <212> TYPE: PRT
     756 <213> ORGANISM: Lactobacillus reuteri
     758 <400> SEQUENCE: 11
     759 Met Tyr Lys Val Gly Lys Asn Trp Ala Val Ala Thr Leu Val Ser Ala
    762 Ser Ile Leu Met Gly Gly Val Val Thr Ala His Ala Asp Gln Val Glu
                                         25
    765 Ser Asn Asn Tyr Asn Gly Val Ala Glu Val Asn Thr Glu Arg Gln Ala
    768 Asn Gly Gln Ile Gly Val Asp Gly Lys Ile Ile Ser Ala Asn Ser Asn
    771 Thr Thr Ser Gly Ser Thr Asn Gln Glu Ser Ser Ala Thr Asn Asn Thr
    772 65
                             70
                                                 75
    774 Glu Asn Ala Val Val Asn Glu Ser Lys Asn Thr Asn Asn Thr Glu Asn
                         85
                                             90
    777 Ala Val Val Asn Glu Asn Lys Asn Thr Asn Asn Thr Glu Asn Ala Val
                                        105
    780 Val Asn Glu Asn Lys Asn Thr Asn Asn Thr Glu Asn Asp Asn Ser Gln
                                    120
    783 Leu Lys Leu Thr Asn Asn Glu Gln Pro Ser Ala Ala Thr Gln Ala Asn
            130
                                135
                                                    140
    786 Leu Lys Lys Leu Asn Pro Gln Ala Ala Lys Ala Val Gln Asn Ala Lys
```

155

787 145

RAW SEQUENCE LISTING DATE: 12/06/2001 PATENT APPLICATION: US/09/995,587 TIME: 11:29:22

Input Set : A:\es.txt

Output Set: N:\CRF3\12062001\1995587.raw

```
789 Ile Asp Ala Gly Ser Leu Thr Asp Asp Gln Ile Asn Glu Leu Asn Lys
                          165
                                18 18 18 July 18
                                              170
      792 Ile Asn Phe Ser Lys Ser Ala Glu Lys Gly Ala Lys Leu Thr Phe Lys
                      180
                                           185
      795 Asp Leu Glu Gly Ile Gly Asn Ala Ile Val Lys Gln Asp Pro Gln Tyr
                                       200
      798 Ala Ile Pro Tyr Ser Asn Ala Lys Glu Ile Lys Asn Met Pro Ala Thr
              210
                                  215
                                                       220
      801 Tyr. Thr Val Asp Ala Gln Thr Gly Lys Met Ala His Leu Asp Val Trp
                              230
                                                   235
      804 Asp Ser Trp Pro Val Gln Asp Pro Val Thr Gly Tyr Val Ser Asn Tyr
                          245
                                               250
     807 Met Gly Tyr Gln Leu Val Ile Ala Met Met Gly Ile Pro Asn Ser Pro
                                           265
     810 Thr Gly Asp Asn His Ile Tyr Leu Leu Tyr Asn Lys Tyr Gly Asp Asn
     811
                  275
                                      280
     813 Asp Phe Ser His Trp Arg Asn Ala Gly Ser Ile Phe Gly Thr Lys Glu
                                  295
     816 Thr Asn Val Phe Gln Glu Trp Ser Gly Ser Ala Ile Val Asn Asp Asp
                              310
     819 Gly Thr Ile Gln Leu Phe Phe Thr Ser Asn Asp Thr Ser Asp Tyr Lys
                          325 /
                                              330
                                          .
     822 Leu Asn Asp 'Gln Arg Leu Ala Thr Ala Thr Leu Asn Leu Asn Val Asp
                      340
                                          345
     825 Asp Asn Gly Val Ser Ile Lys Ser Val Asp Asn Tyr Gln Val Leu Phe
                                      360
     828 Glu Gly Asp Gly Phe His Tyr Gln Thr Tyr Glu Gln Phe Ala Asn Gly
             370
                                  375
     831 Lys Asp Arg Glu Asn Asp Asp Tyr Cys Leu Arg Asp Pro His Val Val
                              390
                                                  395
     834 Gln Leu Glu Asn Gly Asp Arg Tyr Leu Val Phe Glu Ala Asn Thr Gly
     835
                          405
                                              410
     837 Thr Glu Asp Tyr Gln Ser Asp Asp Gln Ile Tyr Asn Trp Ala Asn Tyr
                     420
                                          425
     840 Gly Gly Asp Asp Ala Phe Asn Ile Lys Ser Ser Phe Lys Leu Leu Asn
                 435
                                      440
     843 Asn Lys Lys Asp Arg Glu Leu Ala Gly Leu Ala Asn Gly Ala Leu Gly
             450
                                  455
                                                      460
     846 Ile Leu Lys Leu Thr Asn Asn Gln Ser Lys Pro Lys Val Glu Glu Val
     847 465
                             470
                                                  475
E--> 849 Tyr Ser Pro Leu Val Ser Thr Leu Met Ala Cys Asp Glu Val Xaa Xaa
                         485
                                              490
     852 Lys Leu Gly Asp Lys Tyr Tyr Leu Phe Ser Val Thr Arg Val Ser Arg
                     500
     855 Gly Ser Asp Arg Glu Leu Thr Ala Lys Asp Asn Thr Ile Val Gly Asp
                 515
                                    520
    858 Asn Val Ala Met Ile Gly Tyr Val Ser Asp Ser Leu Met Gly Lys Tyr
                                 535
    861 Lys Pro Leu Asn Asn Ser Gly Val Val Leu Thr Ala Ser Val Pro Ala
```

7.2.

DATE: 12/06/2001

TIME: 11:29:22

Input Set : A:\es.txt Output Set: N:\CRF3\12062001\I995587.raw 862 545 550 555 864 Asn Trp Arg Thr Ala Thr Tyr Ser Tyr Tyr Ala Val Pro Val Ala Gly 565 570 867 His Pro Asp Gln Val Leu Ile Thr Ser Tyr Met Ser Asn Lys Asp Phe 580 585 870 Ala Ser Gly Glu Gly Asn Tyr Ala Thr Trp Ala Pro Ser Phe Leu Val **-≥** : 595 600 605 873 Gln Ile Asn Pro Asp Asp Thr Thr Thr Val Leu Ala Arg Ala Thr Asn ·610 615 876 Gln Gly Asp Trp Val Trp Asp Asp Ser Ser Arg Asn Asp Asn Met Leu 630 635 879 Gly Val Leu Lys Glu Gly Ala Ala Asn Ser Ala Ala Leu Pro Gly Glu 645 650 882 Trp Gly Lys Pro Val Asp Trp Ser Leu Ile Asn Arg Ser Pro Gly Leu 660 665 885 Gly Leu Lys Pro His Gln Pro Val Gln Pro Lys Ile Asp Gln Pro Asp 675 680 888 Gln Gln Pro Ser Gly Gln Asn Thr Lys Asn Val Thr Pro Gly Asn Gly 695 700 891 Asp Lys Pro Ala Gly Lys Ala Thr Pro Asp Asn Thr Asn Ile Asp Pro 710 715 894 Ser Ala Gln Pro Ser Gly Gln Asn Thr Asn Ile Asp Pro Ser Ala Gln 725 735 E--> 897(Xaa Ser Gly Gln Asn Thr Lys Asn Val Thr Pro Gly Asn Glu Lys Gln 740 898 745 900 Gly Lys Asn Thr Asp Ala Lys Gln Leu Pro Gln Thr Gly Asn Lys Ser 755 760 765 903 Gly Leu Ala Gly Leu Tyr Ala Gly Ser Leu Leu Ala Leu Phe Gly Leu 770 775 906 Ala Ala Ile Glu Lys Arg His Ala 907 785 1079 <210> SEQ ID NO: 26 1080 <211> LENGTH: 21 1081 <212> TYPE: DNA 1082 <213> ORGANISM: Artificial Sequence 1084 <220> FEATURE: 1085 <223> OTHER INFORMATION: Description of Artificial Sequence:primer 1087 <400> SEQUENCE: 26 W--> 1088 taccomissing tacttcaact t 21 E--> 1093/1

see net page

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/995,587

file://C:\Crf3\Outhold\VsrI995587.htm

gat gag gta nnn nnn aag ctt ggt gat aag tat tat ctc ttc tcc gta 2740 Asp Glu Val Xaa Xaa Lys Leu Gly Asp Lys Tyr Tyr Leu Phe Ser Val 495 500 505

(portion of Sequence 10)

more n's are shown in Sequence 10
the above n's are shown as a

sample of exist

FUIT

Use of n and/or Xaa has been detected in the Sequence Listing. Betiew the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY DATE: 12/06/2001 PATENT APPLICATION: US/09/995,587 TIME: 11:29:24

Input Set : A:\es.txt

Output Set: N:\CRF3\12062001\1995587.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:407 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5 L:640 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:10 L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:641 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:10 **=** ₹ L:641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:701 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:10 L:701 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:718 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:10 L:718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 L:849 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11 M:340 Repeated in SeqNo=11 L:992 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:18 L:992 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:18 L:992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 L:1004 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:19 L:1004 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:19 L:1004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 L:1040 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22 L:1040 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22 L:1040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 L:1052 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:23 L:1052 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23 L:1052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 L:1088 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:26 L:1088 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:26 L:1088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 L:1093 M:254 E: No. of Bases conflict, LENGTH:Input:1 Counted:21 SEQ:26